

Mon Nov 10 11:43:27 2003

us-09-704-272-2.rat

Page 1

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 7, 2003, 16:02:58 (Search time 28 Seconds
(Without alignments)
3412.068 Million cell updates/sec

Title: US-09-704-272-2

Perfect score: 11785

Sequence: 1 MACWPLRLRLWNLFRFR.....VDVALRSPLDKVKESYV 2258

Scoring table:

BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 328717 seqs, 4231058 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database:

Issued Patents AA:*
1: /cgn2_6/prodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/prodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/prodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/prodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/prodata/1/1aa/PCTUS.COMB.pep:*
6: /cgn2_6/prodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysts of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6901	58.6	1375	3 US-08-665-259-26	Sequence 26, Appl
2	6901	58.6	1375	3 US-08-762-500-26	Sequence 26, Appl
3	3112.5	26.4	1457	3 US-08-665-259-27	Sequence 27, Appl
4	3112.5	26.4	1457	3 US-08-762-500-27	Sequence 27, Appl
5	2618	22.2	1684	3 US-08-665-259-25	Sequence 25, Appl
6	2618	22.2	1684	3 US-08-762-500-25	Sequence 25, Appl
7	2618	22.2	1704	3 US-08-762-500-75	Sequence 75, Appl
8	359	3.0	315	4 US-09-328-352-4388	Sequence 4388, Ap
9	355	3.0	322	4 US-09-107-532A-4662	Sequence 4662, Ap
10	353	3.0	332	4 US-09-107-532A-3752	Sequence 3752, Ap
11	352.5	3.0	335	4 US-09-252-991A-20837	Sequence 20837, A
12	344	2.9	589	4 US-08-328-352-7592	Sequence 7592, Ap
13	338.5	2.9	1280	4 US-08-583-276-19	Sequence 19, Appl
14	338	2.9	402	4 US-09-107-532A-5360	Sequence 5360, Ap
15	337.5	2.9	1280	4 US-09-767-594-2	Sequence 2, Appl
16	337.5	2.9	1280	6 5206352-4	Patent No. 5206352
17	335.5	2.8	251	4 US-09-107-532A-4205	Sequence 4205, Appl
18	335	2.8	1279	4 US-08-784-649A-2	Sequence 2, Appl
19	326.5	2.8	1280	4 US-08-752-447-2	Sequence 2, Appl
20	326.5	2.8	1280	4 US-09-316-167-2	Sequence 2, Appl
21	323	2.7	929	4 US-09-252-991A-22946	Sequence 22946, A
22	323.5	2.7	788	4 US-09-252-991A-28171	Sequence 28171, A
23	319.5	2.7	607	4 US-09-252-991A-18351	Sequence 18351, A
24	318	2.7	454	4 US-09-107-532A-4983	Sequence 4983, Ap
25	317	2.7	406	4 US-09-134-001C-3570	Sequence 3570, Ap
26	316.5	2.7	309	4 US-09-252-991A-21204	Sequence 21204, A
27	316.5	2.7	391	4 US-09-252-991A-20275	Sequence 20275, A

28	316.5	2.7	460	4 US-09-134-001C-3369	Sequence 3369, Ap
29	316	2.7	319	4 US-09-634-228-243	Sequence 243, App
30	310.5	2.6	1275	3 US-09-120-513-2	Sequence 2, Appl
31	310.5	2.6	1275	3 US-09-450-105-2	Sequence 2, Appl
32	310	2.6	1302	1 US-08-232-537-2	Sequence 2, Appl
33	302	2.6	329	4 US-09-107-532A-4844	Sequence 4844, Ap
34	299	2.5	350	4 US-09-107-532A-6978	Sequence 6978, Ap
35	299	2.5	528	4 US-09-107-532A-6340	Sequence 6340, Ap
36	296.5	2.5	304	4 US-09-107-532A-5424	Sequence 5424, Ap
37	293	2.5	337	4 US-09-134-001C-5550	Sequence 5550, Ap
38	287.5	2.4	1408	1 US-08-612-521-2	Sequence 2, Appl
39	287	2.4	1349	2 US-08-612-734B-2	Sequence 12, Appl
40	285.5	2.4	233	4 US-09-627-376-12	Sequence 3824, Ap
41	284	2.4	231	4 US-09-134-001C-3824	Sequence 3292, Ap
42	281.5	2.4	288	4 US-09-134-001C-3292	Sequence 7040, Ap
43	280.5	2.4	307	4 US-09-107-532A-7040	Sequence 3539, Ap
44	276	2.3	257	4 US-09-134-001C-3539	Sequence 5192, Ap
45	276	2.3	303	4 US-09-107-532A-5192	

ALIGNMENTS

RESULT 1
US-08-665-259-26
Sequence 26, Application US/08665259
Patent No. 6028173
GENERAL INFORMATION:
APPLICANT: Landes, Gregory M.
APPLICANT: Burn, Timothy C.
APPLICANT: Connors, Timothy D.
APPLICANT: Dackowski, William J.
APPLICANT: Van Raay, Terence J.
APPLICANT: Klingner, Katherine W.
TITLE OF INVENTION: NOVEL HUMAN CHROMOSOME 16 GENES,
TITLE OF INVENTION: COMPOSITIONS, METHODS OF MAKING AND USING SAME
NUMBER OF SEQUENCES: 73
CORRESPONDENCE ADDRESS:
ADDRESSER: GENZYME CORPORATION
STREET: One Mountain Road
CITY: Framingham
STATE: Massachusetts
COUNTRY: United States of America
ZIP: 01701
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/665,259
FILING DATE: 17-JUN-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Dugan, Deborah A.
REGISTRATION NUMBER: 37,315
REFERENCE/DOCKET NUMBER: IG5-9.1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (508) 872-8400
TELEFAX: (508) 872-5415
INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
LENGTH: 1375 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-665-259-26
Query Match 58.6%; Score 6901; DB 3; Length 1375;
Best Local Similarity 96.9%; Pred. No. 0;
Matches 1332; Conservative 21; Mismatches 22; Indels 0; Gaps 0;

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OM protein - protein search, using sw model

Run on: November 7, 2003, 16:01:07 ; Search time 25 Seconds
(without alignments)
4247.452 Million cell updates/sec

Title: US-09-704-272-2

Perfect score: 11785

Sequence: 1 MACNPQRLRLMKLTPRRR.....VDVAULTSLQDEKVESYV 2258

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 127863 segs, 47026705 residues

Total number of hits satisfying chosen parameters: 127863

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: SwissProt_41.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

"CERP"

Result No.	Score	Query Match	Length	ID	Description
1	11718.5	99.4	2261	1 ABC1_HUMAN	0954777 homo sapien
2	11203.5	99.1	2261	1 ABC1_MOUSE	P41233 mus musculu
3	5836	49.5	2273	1 ABC2_HUMAN	P78163 homo sapien
4	4217	35.8	2436	1 ABC2_MOUSE	Q9bzc7 homo sapien
5	4073	34.6	2434	1 ABC2_HUMAN	P41234 mus musculu
6	2518	22.2	1704	1 ABC1_HUMAN	Q99758 homo sapien
7	1523	12.9	1704	1 ABC1_MOUSE	P43438 caenorhabdi
8	411	3.5	330	1 DRAA_STRPE	P32010 streptomyce
9	380.5	3.2	343	1 NOD1_RHIS3	P55476 rhizobium s
10	366	3.1	304	1 NOD1_RHIS3	P72335 rhizobium s
11	347	2.9	308	1 YADG_ECOLI	P68879 escherichia
12	347	2.9	308	1 NOD1_RHIS3	O8gmh6 rhizobium m
13	347	2.9	308	1 NOD1_RHIS3	P23703 rhizobium m
14	345	2.9	347	1 NOD1_RHIS3	P23703 rhizobium m
15	337.5	2.9	1280	1 MDR1_HUMAN	P80183 homo sapien
16	336	2.9	894	1 YHIE_ECOLI	P71624 escherichia
17	331.5	2.8	355	1 NDI1_RHIME	O52618 rhizobium m
18	329.5	2.8	578	1 YBHF_ECOLI	P55776 escherichia
19	327.5	2.8	308	1 NOD1_RHIS3	P19844 pseudomonas
20	327.5	2.8	1281	1 MDR1_MOUSE	P23174 cricetus
21	324.5	2.8	306	1 NOD1_MOUSE	P26050 bradyrhizob
22	324.5	2.8	1276	1 MDR1_MOUSE	P21440 mus musculu
23	323	2.7	1362	1 MDR1_MOUSE	P21448 cricetus
24	321.5	2.7	1362	1 MDR1_MOUSE	P21448 cricetus
25	320	2.7	1276	1 MDR1_MOUSE	P21449 mus musculu
26	317.5	2.7	1276	1 MDR1_MOUSE	P21449 mus musculu
27	315.5	2.7	311	1 NOD1_MOUSE	P08770 cricetus
28	313	2.7	354	1 Y415_STNY3	P22040 synchocyst
29	313	2.7	1277	1 MDR1_MOUSE	P33245 rattus norv
30	313	2.7	1276	1 MDR1_MOUSE	Q08201 rattus norv
31	309	2.6	1276	1 MDR1_MOUSE	Q08201 rattus norv
32	305	2.6	305	1 NOD1_MOUSE	Q92313 bradyrhizob
33	304.5	2.6	1294	1 YOH5_YEAST	Q08224 saccharomyce

Result No.	Score	Query Match	Length	ID	Description
34	301	2.6	381	1 OPBA_BACSU	Q45460 bacillus su
35	299	2.5	380	1 OPBA_BACSU	Q45460 bacillus su
36	296	2.5	335	1 Y719_ANASP	Q05067 anabaena sp
37	292.5	2.5	262	1 Y423_METJA	Q58429 methanococc
38	292.5	2.5	305	1 YHCH_BACSU	P54592 bacillus su
39	290.5	2.5	274	1 Y179_MYCPN	O50294 mycoplasma
40	288	2.4	1321	1 AB11_HUMAN	Q05342 homo sapien
41	287.5	2.4	274	1 Y179_MYCPN	P47425 mycoplasma
42	287.5	2.4	1279	1 MDR1_HUMAN	P21435 homo sapien
43	284.5	2.4	1321	1 MDR1_MOUSE	P34712 caenorhabdi
44	284	2.4	306	1 BCRA_BACLI	P42332 bacillus li
45	282.5	2.4	1336	1 MAM1_SCHPO	P78966 schizosacch

ALIGNMENTS

Result No.	Score	Query Match	Length	ID	Description
1	11718.5	99.4	2261	1 ABC1_HUMAN	0954777 homo sapien
2	11203.5	99.1	2261	1 ABC1_MOUSE	P41233 mus musculu
3	5836	49.5	2273	1 ABC2_HUMAN	P78163 homo sapien
4	4217	35.8	2436	1 ABC2_MOUSE	Q9bzc7 homo sapien
5	4073	34.6	2434	1 ABC2_HUMAN	P41234 mus musculu
6	2518	22.2	1704	1 ABC1_HUMAN	Q99758 homo sapien
7	1523	12.9	1704	1 ABC1_MOUSE	P43438 caenorhabdi
8	411	3.5	330	1 DRAA_STRPE	P32010 streptomyce
9	380.5	3.2	343	1 NOD1_RHIS3	P55476 rhizobium s
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11	347	2.9	308	1 YADG_ECOLI	P68879 escherichia
12	347	2.9	308	1 NOD1_RHIS3	O8gmh6 rhizobium m
13	347	2.9	308	1 NOD1_RHIS3	P23703 rhizobium m
14	345	2.9	347	1 NOD1_RHIS3	P23703 rhizobium m
15	337.5	2.9	1280	1 MDR1_HUMAN	P80183 homo sapien
16	336	2.9	894	1 YHIE_ECOLI	P71624 escherichia
17	331.5	2.8	355	1 NDI1_RHIME	O52618 rhizobium m
18	329.5	2.8	578	1 YBHF_ECOLI	P55776 escherichia
19	327.5	2.8	308	1 NOD1_RHIS3	P19844 pseudomonas
20	327.5	2.8	1281	1 MDR1_MOUSE	P23174 cricetus
21	324.5	2.8	306	1 NOD1_MOUSE	P26050 bradyrhizob
22	324.5	2.8	1276	1 MDR1_MOUSE	P21440 mus musculu
23	323	2.7	1362	1 MDR1_MOUSE	P21448 cricetus
24	321.5	2.7	1362	1 MDR1_MOUSE	P21448 cricetus
25	320	2.7	1276	1 MDR1_MOUSE	P21449 mus musculu
26	317.5	2.7	1276	1 MDR1_MOUSE	P21449 mus musculu
27	315.5	2.7	311	1 NOD1_MOUSE	P08770 cricetus
28	313	2.7	354	1 Y415_STNY3	P22040 synchocyst
29	313	2.7	1277	1 MDR1_MOUSE	P33245 rattus norv
30	313	2.7	1276	1 MDR1_MOUSE	Q08201 rattus norv
31	309	2.6	1276	1 MDR1_MOUSE	Q08201 rattus norv
32	305	2.6	305	1 NOD1_MOUSE	Q92313 bradyrhizob
33	304.5	2.6	1294	1 YOH5_YEAST	Q08224 saccharomyce

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OM protein - protein search, using sw model

Run on: November 7, 2003, 16:02:12 ; Search time 35 Seconds

(without alignments)
6204.254 Million cell updates/sec

Title: US-09-704-272-2

Perfect score: 11785
Sequence: 1 MACPQLRLMLKMLTFRFR.....VDVAVLTSFLQDEKYEKSTV 2258

Scoring table: BLASTSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 283308

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : PIR_76.*

1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	10869.5	92.2	2201	2	ATP binding cassette
2	3332.5	28.3	1529	2	ATP binding cassette
3	3112.5	26.4	1472	2	ATP binding cassette
4	2621	22.2	1704	2	probable ATP-binding
5	2618	22.2	1704	2	ATP-binding cassette
6	2043.5	17.3	1802	2	hypothetical prote
7	1985.5	16.8	1816	2	probable ABC trans
8	1858	15.8	1447	2	hypothetical prote
9	1778.5	15.1	1317	2	protein F33B1.4 (
10	1530	13.0	1758	2	protein C48B4.4b (
11	1523	12.9	1704	2	ATP-binding cassette
12	1520.5	12.9	1767	2	transport protein
13	1398	11.9	1246	2	hypothetical prote
14	1153	9.8	1564	2	hypothetical prote
15	1017	8.6	1431	2	hypothetical prote
16	1013.5	8.6	1431	2	hypothetical prote
17	846	7.2	269	2	hypothetical prote
18	784	6.7	1011	2	probable ABC-type
19	684.5	5.8	900	2	probable ABC-type
20	662.5	5.6	895	2	probable ABC-type
21	649	5.5	722	2	probable ABC-type
22	638.5	5.4	925	2	probable ABC-type
23	619	5.3	1336	2	ABC transport prot
24	485	4.1	196	2	hypothetical prote
25	432	3.7	339	2	probable dauncrubi
26	426.5	3.6	324	2	probable dauncrubi
27	422.5	3.6	664	2	probable ABC-type
28	419.5	3.6	328	2	dauncrubi resis
29	412.5	3.5	310	2	ABC-type multidrug

30	411	3.5	330	2	S27707	dauncrubi resis
31	410.5	3.5	327	2	D72257	hypothetical prote
32	410	3.5	314	2	D97318	ABC-type MDR trans
33	409.5	3.5	398	2	C69485	dauncrubi resis
34	404.5	3.4	297	2	AE1816	ABC transporter (A
35	399.5	3.4	333	2	D72492	probable ABC trans
36	395.5	3.4	310	2	E96920	ABC transporter (A
37	395	3.4	311	2	G68803	ABC transporter (A
38	394	3.3	246	2	S75436	hypothetical prote
39	390	3.3	301	2	E72384	ABC transporter, A
40	388	3.3	331	2	D70984	probable drrA prot
41	387	3.3	259	2	H97301	ABC-type MDR trans
42	386	3.3	331	2	S73019	dauncrubi resis
43	385	3.3	350	2	B69065	ABC transporter (A
44	380	3.2	312	2	H97342	ABC-type MDR trans
45	378	3.2	130	2	I38906	ATP-binding cassette

ALIGNMENTS

RESULT 1
ATP binding cassette transporter ABC1 - mouse
C:Species: Mus musculus (house mouse)
C:Date: 05-Apr-1995 #sequence_revision 05-Apr-1995 #text_change 02-Feb-2001
C:Accession: A54774
R:Luciani, M.F.; Denicof, F.; Savary, S.; Mattei, M.G.; Chimenti, G.
Genomics 21, 150-159, 1994
A:Title: Cloning of two novel ABC transporters mapping on human chromosome 9.
A:Reference number: A54774; MUID:94375008; PMID:8088782
A:Accession: A54774
A:Molecule type: mRNA
A:Residues: 1-2201 <LUC>
A:Cross-references: GB:X75926, NID:9495256, PIDN:CA53530.1, PID:g495257
C:Superfamily: unassigned ATP-binding cassette proteins; ATP-binding cassette homol
C:Keywords: ATP; duplication; nucleotide binding; P-loop
F:856-1047/Domain: ATP-binding cassette homology <ABC1>
F:873-880/Region: nucleotide-binding motif A (P-loop)
F:1869-2060/Domain: ATP-binding cassette homology <ABC2>
F:1886-1893/Region: nucleotide-binding motif A (P-loop)

Query Match	92.2%	Score 10869.5	DB 2	Length 2201
Best Local Similarity	94.7%	Pred. No. 0		
Matches 2084	Conservative 54	Mismatches 60	Indels 3	Gaps 1
QY	61	MPSAGTLPWVGIIICNANNPCFRYPTEGEAPGVGVGNFNKSIVARLFSDARLLYSQKDT	120	
DB	1	MPSAGTLPWVGIIICNANNPCFRYPTEGEAPGVGVGNFNKSIVARLFSDAQLLILYSQKDT	60	
QY	121	SMKMRKYLRTLQOIKKSSSNLKODPLVDNETFSGLVHNLPLPKSTVDMRADVILH	180	
DB	61	SIKMHKYLRLMRLQIKHPSNMLKQDPLVDNETFSGLVHNLPLPRETVSILLOXNGLQ	120	
QY	181	KVPLQGYQLHTSLCNGSKSEMIQDQGVSELGCLPREKLAARERLRNMDILKPL	240	
DB	121	KVPLQGYQLHTSLCNGSKSEMIQDQGVSELGCLPREKLAARERLRNMDILKPLV	180	
QY	241	RTLNSTSPFSGKEIAEATKTLIHSLGTLAQELFSMSMSMDRQEWFLTVNSSSSSTOI	300	
DB	181	TKLNSTSLPLTQHLAEATTVLDLSLGLAQELFSTKMSMDRQEWFLTVNSSSSSTOI	240	
QY	301	YQAVSRIYCGHPEGGLIKISLWYEDNNYKALFGNGTEDEATFYDNTPTPCNDLMK	360	
DB	241	YQAVSRIYCGHPEGGLIKISLWYEDNNYKALFGNGTEDEATFYDNTPTPCNDLMK	300	
QY	361	NLESPLSRIITWAKLKPILVGLITTPDPAARQWAAETNKTQELAVFDDLGMMELS	420	
DB	301	NLESPLSRIITWAKLKPILVGLITTPDPAARQWAAETNKTQELAVFDDLGMMELS	360	
QY	421	PKIWFENSOEMDLVRLMLDSRDNDHFEEQQLDGLDWTADQIVAEFLAKHPEDVQSNGS	480	
DB	361	PKIWFENSOEMDLVRLMLDSRDNDHFEEQQLDGLDWTADQIVAEFLAKHPEDVQSNGS	420	

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CM protein - protein search, using sw model

Run on: November 7, 2003, 16:04:18 ; Search time 48 Seconds
(Without alignments)
8079.373 Million cell updates/sec

Title: US-09-704-272-2

Perfect score: 11785
Sequence: 1 MACWPQLRLMLKMLTFRRR.....VDVAVLTSFLQDEKVKESYV 2258

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 644079 seqs, 171749292 residues

Total number of hits satisfying chosen parameters: 644079

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :
1: /cgn2_6/prodata/2/pubppa/US07_PUBCOMB.pep:*
2: /cgn2_6/prodata/2/pubppa/PCT_NEW_PUB.pep:*
3: /cgn2_6/prodata/2/pubppa/US06_NEW_PUB.pep:*
4: /cgn2_6/prodata/2/pubppa/US07_NEW_PUB.pep:*
5: /cgn2_6/prodata/2/pubppa/US08_PUBCOMB.pep:*
6: /cgn2_6/prodata/2/pubppa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/prodata/2/pubppa/US08_NEW_PUB.pep:*
8: /cgn2_6/prodata/2/pubppa/US08_PUBCOMB.pep:*
9: /cgn2_6/prodata/2/pubppa/US09_PUBCOMB.pep:*
10: /cgn2_6/prodata/2/pubppa/US09_PUBCOMB.pep:*
11: /cgn2_6/prodata/2/pubppa/US09C_PUBCOMB.pep:*
12: /cgn2_6/prodata/2/pubppa/US09C_NEW_PUB.pep:*
13: /cgn2_6/prodata/2/pubppa/US10_PUBCOMB.pep:*
14: /cgn2_6/prodata/2/pubppa/US10_PUBCOMB.pep:*
15: /cgn2_6/prodata/2/pubppa/US10C_PUBCOMB.pep:*
16: /cgn2_6/prodata/2/pubppa/US10_NEW_PUB.pep:*
17: /cgn2_6/prodata/2/pubppa/US60_NEW_PUB.pep:*
18: /cgn2_6/prodata/2/pubppa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	11734.5	99.6	2261	US-10-313-641-9	Sequence 9, Appli
2	11734.5	99.6	2261	US-10-313-641-10	Sequence 10, Appli
3	11715.5	99.4	2261	US-09-995-542-11	Sequence 11, Appli
4	11715.5	99.4	2261	US-09-946-456-11	Sequence 11, Appli
5	11715.5	99.4	2261	US-09-984-827-2	Sequence 2, Appli
6	11714.5	99.4	2261	US-09-984-827-129	Sequence 19, App
7	11714.5	99.4	2261	US-09-984-827-136	Sequence 137, App
8	11712.5	99.4	2261	US-09-984-827-127	Sequence 127, App
9	11712.5	99.4	2261	US-09-984-827-128	Sequence 128, App
10	11712.5	99.4	2261	US-09-984-827-131	Sequence 131, App
11	11712.5	99.4	2261	US-09-984-827-134	Sequence 134, App
12	11712.5	99.4	2261	US-09-984-827-135	Sequence 135, App
13	11710.5	99.4	2261	US-09-984-827-133	Sequence 133, App
14	11705.5	99.3	2261	US-09-984-827-130	Sequence 130, App
15	11704.5	99.3	2261	US-09-984-827-132	Sequence 132, App

ALIGNMENTS

16	11176.5	94.8	2261	US-10-340-097-118	Sequence 118, App
17	11176.5	94.8	2261	US-10-336-215-118	Sequence 118, App
18	11176.5	94.8	2261	US-10-336-215-118	Sequence 118, App
19	10869.5	92.2	2201	US-09-995-542-9	Sequence 9, Appli
20	5838.5	49.5	2310	US-09-995-542-10	Sequence 10, Appli
21	5830.4	49.4	2273	US-09-995-542-12	Sequence 12, Appli
22	5799.4	49.2	2273	US-10-340-097-3	Sequence 3, Appli
23	5799.4	49.2	2273	US-10-336-215-3	Sequence 3, Appli
24	5799.4	49.2	2273	US-10-336-215-3	Sequence 3, Appli
25	5716.4	48.5	2146	US-09-995-542-5	Sequence 5, Appli
26	5703.4	48.4	2144	US-09-858-194-2	Sequence 2, Appli
27	5703.4	48.4	2144	US-10-154-419-2	Sequence 2, Appli
28	5702.4	48.4	2235	US-10-340-097-6	Sequence 6, Appli
29	5702.4	48.4	2235	US-10-336-215-6	Sequence 6, Appli
30	5702.4	48.4	2235	US-10-336-215-6	Sequence 6, Appli
31	5680.5	48.2	2167	US-09-995-542-2	Sequence 2, Appli
32	5558.4	47.2	2100	US-09-995-542-6	Sequence 6, Appli
33	5530.5	46.9	2121	US-09-995-542-3	Sequence 3, Appli
34	4227.3	35.9	2436	US-09-795-693-8	Sequence 8, Appli
35	4227.3	35.9	2436	US-10-156-239-8	Sequence 8, Appli
36	4227.3	35.9	2436	US-10-199-485-8	Sequence 8, Appli
37	4014.5	34.1	2001	US-10-072-621-8	Sequence 8, Appli
38	3779.5	32.1	1550	US-09-995-542-8	Sequence 8, Appli
39	3235.5	27.5	2595	US-10-072-900-5	Sequence 5, Appli
40	3110.5	26.4	1472	US-10-340-097-119	Sequence 119, App
41	3110.5	26.4	1472	US-10-336-215-119	Sequence 119, App
42	3110.5	26.4	1472	US-10-336-215-119	Sequence 119, App
43	3054.2	25.9	2516	US-10-072-900-6	Sequence 6, Appli
44	2625.2	22.3	1704	US-10-340-097-120	Sequence 120, App
45	2625.2	22.3	1704	US-10-336-215-120	Sequence 120, App

RESULT 1
US-10-313-641-9
Sequence 9, Application US/10313641
Publication NO. US20030162758A1

GENERAL INFORMATION:
APPLICANT: Iemida, Brian
APPLICANT: Duncan, Keith
APPLICANT: Bailey, Kathy
APPLICANT: Kane, John
APPLICANT: Schwartz, Daniel
TITLE OF INVENTION: Treatments for Age Related-Macular Degeneration (AMD)
FILE REFERENCE: P0231US2
CURRENT FILING DATE: 2002-12-06
PRIOR APPLICATION NUMBER: US 60/415,864
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: US 60/340,496
PRIOR FILING DATE: 2001-12-07
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.1
SEQ ID NO 9
LENGTH: 2261
TYPE: PRT
ORGANISM: Human
US-10-313-641-9

Query Match 99.6%; Score 11734.5; DB 12; Length 2261;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 2253; Conservative 2; Mismatches 3; Indels 3; Gaps 1;

QY 1 MACWPQLRLMLKMLTFRRRQTCOLLLEVMPLIFLLISVRSLSPYEGCHECFPNKA 60
DB 1 MACWPQLRLMLKMLTFRRRQTCOLLLEVMPLIFLLISVRSLSPYEGCHECFPNKA 60
QY MPAGLTPWVGIIICNANPCFRPTGEAGVGNFNKSIIVARLFSARRLLSQKDT 120
DB 61 MPAGLTPWVGIIICNANPCFRPTGEAGVGNFNKSIIVARLFSARRLLSQKDT 120

GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: November 7, 2003, 16:01:37 ; Search time 64 Seconds
(without alignments)
9104.418 Million cell updates/sec

Title: US-09-704-272-2

Perfect score: 11785
Sequence: 1 MACWPQLRLMLKMLTFRRR.....VDVALTSLQDEKVESYV 2258

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 830525

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database:

1: sp_archaea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_organelle:*
9: sp_phase:*
10: sp_plant:*
11: sp_proteus:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_rviro:*
16: sp_bacteriophage:*
17: sp_archaeal:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	10165	86.3	2260	13 Q8UVV4	Q8UVV4 gallus gall
2	7334.5	62.2	1487	11 Q8BRY1	Q8BRY1 mus musculu
3	5838.5	49.5	2310	11 Q35600	Q35600 mus musculu
4	5835	49.4	2281	6 Q02698	Q02698 bos taurus
5	5723	48.6	2146	4 Q9B2C4	Q9B2C4 homo sapien
6	5711	48.5	2146	4 Q9NR73	Q9NR73 homo sapien
7	5706	48.4	2146	4 Q81ZV2	Q81ZV2 homo sapien
8	5681.5	48.2	2159	11 Q91V24	Q91V24 mus musculu
9	5323.5	45.2	2008	4 Q96S89	Q96S89 mus musculu
10	4232	35.9	2434	11 Q9HCR9	Q9HCR9 ratu
11	4237	35.9	2436	4 Q9HCR9	Q9HCR9 homo sapien
12	3209	27.2	2347	4 Q81ZV6	Q81ZV6 homo sapien
13	3200	27.2	2277	4 Q96UT3	Q96UT3 homo sapien
14	2698.5	22.9	1764	5 Q8MDA3	Q8MDA3 strongyloce
15	2562.5	21.7	1704	11 Q8R420	Q8R420 mus musculu
16	2463	20.9	1713	5 Q9VRG4	Q9VRG4 drosophila

17	2146.5	18.2	1846	10 Q8W010	Q8W010 arabidopsis
18	2043.5	17.3	1802	5 Q9TXV8	Q9TXV8 caenorhabdi
19	2024	17.2	1547	5 Q01790	Q01790 caenorhabdi
20	2019	17.1	1660	5 Q9VWJ9	Q9VWJ9 drosophila
21	2015.5	17.1	1843	5 Q9GGS2	Q9GGS2 leishmania
22	2007.5	17.0	867	4 Q96HC2	Q96HC2 homo sapien
23	1984	16.8	1896	5 Q8W898	Q8W898 leishmania
24	1918	16.3	1621	5 Q8T6J5	Q8T6J5 dictyosteli
25	1828	15.5	1631	5 Q8T6J1	Q8T6J1 dictyosteli
26	1819.5	15.4	1662	5 Q8T6J2	Q8T6J2 dictyosteli
27	1807	15.3	1750	5 Q8T6J3	Q8T6J3 dictyosteli
28	1800	15.3	1750	5 Q8T6J4	Q8T6J4 dictyosteli
29	1794.5	15.2	1702	5 Q8T6J5	Q8T6J5 dictyosteli
30	1527.5	12.7	1526	5 Q9VFK6	Q9VFK6 drosophila
31	1502.5	12.7	1526	5 Q8T6J2	Q8T6J2 ratu
32	1469	12.5	1642	4 Q9NY14	Q9NY14 homo sapien
33	1467	12.4	1642	4 Q8WVZ7	Q8WVZ7 homo sapien
34	1443	12.2	1642	4 Q8K448	Q8K448 mus musculu
35	1413	12.0	1322	10 Q8S8T6	Q8S8T6 arabidopsis
36	1411.5	12.0	1623	11 Q8R449	Q8R449 mus musculu
37	1408	11.9	1543	4 Q8WVZ4	Q8WVZ4 homo sapien
38	1369.5	11.6	1624	4 Q81UA7	Q81UA7 homo sapien
39	1367.5	11.6	1617	4 Q8N139	Q8N139 homo sapien
40	1364.5	11.6	1624	4 Q8WVZ5	Q8WVZ5 homo sapien
41	1358.5	11.5	1617	4 Q8WVZ6	Q8WVZ6 homo sapien
42	1349.5	11.5	1620	11 Q8K440	Q8K440 mus musculu
43	1334.5	11.3	1620	11 Q8K442	Q8K442 mus musculu
44	1327.5	11.2	1581	4 Q94911	Q94911 homo sapien
45	1320	11.2	1624	11 Q8K441	Q8K441 mus musculu

ALIGNMENTS

RESULT 1

Q8UVV4 PRELIMINARY; PRT; 2260 AA.

AC Q8UVV4; 01-MAR-2002 (TREMURel. 20, Created)

DT 01-MAR-2002 (TREMURel. 20, Last sequence update)

DT 01-MAR-2003 (TREMURel. 23, Last annotation update)

DE ATP-binding cassette transporter 1.

GN ABCA1.

OS Gallus gallus (Chicken).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;

OC Gallus.

OX NCBI_TaxID=9031;

RN (1)

RP SEQUENCE FROM N.A.

RA Attie A.D., Brooks-Wilson A.R., Walker D., McManus B.,

RA Gray-Keller M.P., MacDonald M.L.E., Roomp K., Tebon A., Zhang L.-H.,

RA Mulligan J., Senses C., Bitgood J.J., Cook M.E., Kastelein J.J.P.,

RA Hayden M.R., Ester Accumulation in Hepatocytes and Intestinal Lamina

RT Proptia Caused by an ABCA1 Mutation in WHAM Chickens.,"

RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.

EMBL: AF362377; AAL56247.1; -

DR EMBL: IPR003593; AAA ATPase.

DR InterPro: IPR003439; ABC_transporter.

DR Pfam: PF00005; ABC_tran; 2.

DR ProDom: PD00006; ABC_transporter; 2.

DR SMART: SM00382; AAA; 2.

DR PROSITE: PS00211; ABC_TRANSPORTER; 1.

DR ATP-binding.

SC SEQUENCE 2260 AA; 254070 MW; 19D137F342F98662 CRC64;

Query Match 86.3%; Score 10165; DB 13; Length 2260;

Best Local Similarity 85.1%; Pred. No. 0; Matches 1929; Conservative 163; Mismatches 159; Indels 16; Gaps 8;

1 MACWPQLRLMLKMLTFRRRQCOLLEVMPLFIPIILISVRLSYPEQHECHFPNKA 60

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 7, 2003, 16:00:12 ; Search time 59 Seconds
(without alignments)
6074.654 Million cell updates/sec

Title: US-09-704-272-2

Perfect score: 11785
Sequence: 1 MACMPQLRLMKLTKLTKRRR.....VDVAVLTSFLQDEKVESYV 2258

Scoring table:
Gapop 10.0, Gapext 0.5

Searched: 1107863 seqs, 15872573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

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24: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2003.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	11737.5	99.6	2261	21	AA38082 Human ABC1 cholest
2	11737.5	99.6	2261	22	AA381749 Human ABC1 cholest
3	11737.5	99.6	2261	24	AA381899 Human ABC1 cholest
4	11734.5	99.6	2261	21	AA3818109 Human ABC1 cholest
5	11734.5	99.6	2261	21	AA3818111 Human ABC1 cholest
6	11734.5	99.6	2261	21	AA3818114 Human ABC1 cholest
7	11734.5	99.6	2261	21	AA3818115 Human ABC1 cholest
8	11734.5	99.6	2261	21	AA3818117 Human ABC1 cholest
9	11733.5	99.6	2261	21	AA3818105 Human ABC1 cholest

10	11733.5	99.6	2261	21	AA3818110 Human ABC1 cholest
11	11732.5	99.6	2261	21	AA3818113 Human ABC1 cholest
12	11732.5	99.6	2261	21	AA3818116 Human ABC1 cholest
13	11731.5	99.5	2261	21	AA3818112 Human ABC1 cholest
14	11730.5	99.5	2261	22	AA381361 Amino acid sequenc
15	11730.5	99.5	2261	22	AA381365 Amino acid sequenc
16	11726.5	99.5	2261	22	AA381366 Amino acid sequenc
17	11726.5	99.5	2261	22	AA381366 Amino acid sequenc
18	11725.5	99.5	2261	21	AA3818104 Human ABC1 cholest
19	11723	99.5	2260	21	AA3818106 Human ABC1 cholest
20	11722.5	99.5	2261	22	AA381363 Amino acid sequenc
21	11722.5	99.5	2261	22	AA381367 Amino acid sequenc
22	11715.5	99.4	2259	21	AA3818107 Human ABC1 cholest
23	11715.5	99.4	2261	22	AA381362 Amino acid sequenc
24	11715.5	99.4	2261	22	AA381362 Amino acid sequenc
25	11715.5	99.4	2261	22	AA381362 Amino acid sequenc
26	11715.5	99.4	2261	22	AA381362 Amino acid sequenc
27	11715.5	99.4	2261	22	AA381362 Amino acid sequenc
28	11715.5	99.4	2261	22	AA381362 Amino acid sequenc
29	11715.5	99.4	2261	22	AA381362 Amino acid sequenc
30	11714.5	99.4	2261	23	AA381362 Amino acid sequenc
31	11714.5	99.4	2261	23	AA381362 Amino acid sequenc
32	11712.5	99.4	2261	22	AA381362 Amino acid sequenc
33	11712.5	99.4	2261	22	AA381362 Amino acid sequenc
34	11712.5	99.4	2261	23	AA381362 Amino acid sequenc
35	11712.5	99.4	2261	23	AA381362 Amino acid sequenc
36	11712.5	99.4	2261	23	AA381362 Amino acid sequenc
37	11712.5	99.4	2261	23	AA381362 Amino acid sequenc
38	11712.5	99.4	2261	23	AA381362 Amino acid sequenc
39	11711.5	99.4	2261	22	AA381362 Amino acid sequenc
40	11710.5	99.4	2261	23	AA381362 Amino acid sequenc
41	11709.5	99.4	2261	22	AA381362 Amino acid sequenc
42	11708.5	99.4	2261	22	AA381362 Amino acid sequenc
43	11708.5	99.4	2261	22	AA381362 Amino acid sequenc
44	11708.5	99.4	2261	22	AA381362 Amino acid sequenc
45	11707.5	99.3	2261	22	AA381362 Amino acid sequenc

ALIGNMENTS

RESULT 1	AA38082	standard; Protein; 2261 AA.
ID	AA38082	
AC	AA38082	
XX	29-JAN-2001	(first entry)
DE	Human ABC1 cholesteryl transporter.	
KW	Human ABC1 cholesteryl transporter; chromosome 9q31;	
KW	ATP-binding cassette; HDL deficiency disorder; high density lipoprotein;	
KW	Tangier disease; TD; familial HDL deficiency; FHL; polymorphism;	
KW	cardiovascular disease; coronary artery disease; coronary restenosis;	
KW	cerebrovascular disease; peripheric vascular disease;	
KW	Alzheimer's disease; Niemann-Pick disease; Huntington's disease;	
KW	X-linked adrenoleukodystrophy; cancer; gene therapy; genetic diagnosis;	
KW	prognosis; prophylaxis; drug screening; transgenic animal.	
OS	Homo sapiens.	
XX	WO200055318-A2.	
PN	21-SEP-2000.	
XX	15-MAR-2000; 2000WO-1B00532.	
PF	15-MAR-1999; 99US-0124702.	
PR	08-JUN-1999; 99US-0138048.	
PR	17-JUN-1999; 99US-0139600.	
PR	01-SEP-1999; 99US-0151977.	
XX		